

## **CLAIMS AMENDMENT**

Claims 1-79(Deleted).

Claim 80 (Amended). A method of detecting a presence of a BS106 gene product ~~breast cell~~ in a test sample taken from tissue other than breast tissue, the method comprising:

providing a test sample taken from a human; and  
determining if a BS106 gene product is present in the sample, ~~wherein the detection of a BS106 gene product indicates the presence of a breast cell.~~

Claim 81 (Amended). A method of detecting a malignancy of a breast disease ~~tissue~~, the method comprising:

providing a sample from tissue of a human; and  
determining if a BS106 gene product is present in the sample, wherein detection of a BS106 gene product is ~~detected in the sample~~ is indicative of a breast disease ~~malignancy~~.

Claim 82 (Amended). The method of claim 81, wherein the gene product ~~in~~ is an mRNA.

Claim 83 (Deleted in response to a Restriction Requirement).

Claim 84 (Deleted in response to a Restriction Requirement).

Claim 85 (New). A method of determining whether a polynucleotide is present in an inappropriate body compartment, the method comprising the steps of:

providing a test sample taken from a human; and  
analyzing the test sample for the presence of a polynucleotide, and if said polynucleotide is detected in said test sample, determining whether the detected

polynucleotide is present in an inappropriate body compartment of said human; wherein said polynucleotide is capable of hybridizing to or has a sequence selected from the group consisting of: SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4 and SEQ ID NO:5.

Claim 86(New). A method of detecting breast disease, the method comprising the steps of:

- providing a test sample taken from a human;
- detecting whether a polynucleotide is present in the test sample, wherein said polynucleotide is capable of hybridizing to or has a sequence selected from the group consisting of: SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4 and SEQ ID NO:5; and
- determining whether the detected polynucleotide is present in an inappropriate body compartment of said human, wherein the presence of the detected polynucleotide in an inappropriate body compartment is an indication of breast disease.